TRILITE® SPC280H

Gaussian Strong Acid Cation Exchange Resin, Macroporous

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TRILITE® SPC280H is a SAC, porous-type exchange resin with high cross-linking density, high exchange capacity, outstanding mechanical wear resistance, and chemical/physical stability. It is a highly active catalyst that can be used for a range of catalytic reactions, including esterification, etherification, alkylation, and hydration. Additionally, it can be used to produce high-purity treated water efficiently.

Physical and Chemical Properties			
Styrene-DVB, Porous	Functional Group	Sulfonic acid	
H ⁺	Total Capacity(eq/ℓ)	4.7 ↑	
1.75 ↑	Moisture Retention(%)	800	
50~58	Uniformity Coefficient	1.6 ↓	
300~1,200	Swelling Rate(Na⁺→H⁺, %)	8	
40~70	Pore Volume(ml/g)	03~0.5	
20~50	Whole Beads(%)	95↑	
	Styrene-DVB, Porous H+ 1.75↑ 50~58 300~1,200 40~70	Styrene-DVB, PorousFunctional GroupH+Total Capacity(eq/ℓ)1.75 ↑Moisture Retention(%)50~58Uniformity Coefficient300~1,200Swelling Rate(Na+→H+, %)40~70Pore Volume(mℓ/g)	

Recommended Operating Conditions				
Operating Temp(°C)	120	pH Range	0~14	
Bed Depth(mm)	750	Service Flow Rate(m/h)	8~40	

Applications

TRILITE® SPC280H is widely used for not only for water treatment, but also various applications including esterification (1,4BDO,MMA), Etherification (MTBE/TAME/ETBE) and other reactions (Alkylation and Hydration

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® SPC280H as a function of flow rate and temperature

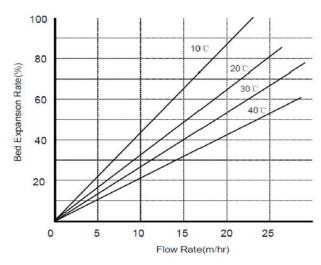


Figure 1 TRILITE® SPC280H Bed Expansion

Figure 2 shows the pressure drop of TRILITE® SPC280H as a function of flow rate and water temperature.

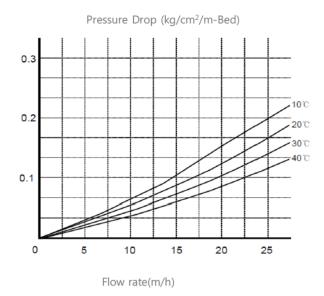


Figure 2 TRILITE® SPC280H Pressure Drop

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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification. Samyang Corporation, 31 Jong-ro 33-gil, Jongno-gu, Seoul, Korea Tel: (02)740-7732~7, Fax: (02)740-7140



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